

The diagram illustrates a closed-loop thermodynamic cycle. The cycle consists of four main components connected in a loop: 1 (compressor), 2 (heat exchanger), 3 (expansion valve), and 4 (boiler). The boiler is connected to a heat source (represented by a sun-like symbol). The fluid then passes through the heat exchanger, the expansion valve, and back to the compressor. A separate loop shows the fluid passing through a turbine (5) and a generator (6) before returning to the compressor.

Figure 2